

CLAIM AMENDMENTS

1-15. (Cancelled)

16. (Previously Amended) A medical lead, comprising:

a resilient, hollow tubular membrane structure configured to be collapsed into a compact form in response to a compressive force, and configured to be expanded into a crescent cross-sectional shape in the absence of a compressive force; and
at least one electrode associated with the tubular structure.

17. (Previously Amended) The medical lead of claim 16, wherein the tubular structure comprises a discrete resilient spring element configured for expanding the tubular structure into the crescent cross-sectional shape.

18. (Previously Amended) The medical lead of claim 16, wherein the tubular structure comprises a resilient mesh or braid configured for expanding the tubular structure into the crescent cross-sectional shape.

19. (Cancelled)

20. (Previously Amended) The medical lead of claim 16, wherein the tubular structure is configured to be collapsed into compact form for percutaneous delivery into a patient.

21. (Currently Amended) The medical lead of claim 16, wherein the tubular structure is sized to fit snugly within the epidural space of a patient when expanded into the non-circular crescent cross-sectional shape.

22-27. (Cancelled)

28. (Previously Added) The medical lead of claim 16, wherein the electrode is disposed on an outer surface of the tubular structure.

29. (Previously Added) The medical lead of claim 16, wherein the tubular structure has a wall thickness of within the range of 0.1 mm to 2 mm.

30. (Previously Added) The medical lead of claim 16, wherein the tubular structure has a wall thickness of 1 mm or less.

31. (Previously Added) A method of performing a medical procedure on a patient, comprising:

collapsing the medical lead of claim 16 by applying a compressive force to the medical lead;

percutaneously delivering the collapsed medical lead into the patient adjacent tissue to be treated; and

expanding the medical lead to anchor the medical lead within the patient.

32. (Previously Added) The method of claim 31, wherein the collapsed medical lead is percutaneously delivered within an epidural space of the patient, and expanded to anchor the medical lead within the epidural space.

33. (Previously Added) The method of claim 31, further comprising stimulating the tissue with the medical lead.

34. (Previously Added) The method of claim 33, wherein the tissue is spinal cord tissue.

35-48. (Cancelled)